CHAPTER 32



ELECTRONICS TECHNICIAN (ET)

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

ELECTRONICS TECHNICIAN (NAVIGATION) ET (V)



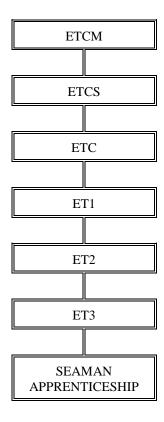
SCOPE OF RATING

Electronics Technicians (Navigation) ET (V) operate and perform maintenance on electronic equipment used for detection, tracking, recognition, and identification of all maritime vessels and navigational aids; operate and perform maintenance on Interior Communications (IC), alarms, warnings and indicators, ship's control, entertainment, gyrocompass, inertial navigation, atmosphere control, instrumentation, and control systems. They also operate and maintain personal computers, electronic, and auxiliary equipment used to safely and accurately navigate all classes of submarines; maintain highly accurate navigation data for use by the Strategic Weapons Systems (SWS), develop and execute navigation plans; stand watch as assistants to officers of the deck and to navigators; perform ship control, navigation, and lookout duties; procure, correct, use, and stow navigation publications and charts; maintain navigational instruments, and computer software. Keep correct navigational time and render "honors and ceremonies" in accordance with national observance and foreign customs.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 32.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title Submarine Navigation Operator

Job Code 001182

Job Family NOC Short Title (30 Characters) Short Title (10 Characters)

Installation, Maintenance, and Repair 4900-2093.00 SUBMARINE NAVIGATION OPERATOR SSNAV OP

Pay Plan Career Field Proficiency Level Other Relationships and Rules:

Enlisted ET(V) A/J NECs may include 14NO, 14XO, 14NM, 14NP, and 14TK

Job Description

Submarine Navigation Operators operate electronic equipment used for detection, tracking, recognition and identification of all maritime vessels and aids to navigation. They operate and perform basic preventive maintenance on radar systems, interior communications circuits, fathometers, Voyage Management Systems (VMS), alarm systems, ship's control stations, entertainment systems, gyrocompasses, Central Atmosphere Monitoring Systems (CAMS), liquid level detection and tank level indication circuits, flowmeters, pressure and temperature sensing circuits, valve position indicators, hovering systems, and missile compensation systems. They operate General Purpose Test Equipment (GPTE), personal computers, and auxiliary equipment. They procure, inventory, update, and correct navigation charts and publications, prepare navigation voyage plans, paper and electronic charts, and maintain navigation logs and records. They stand navigation-related watches and advise and make reports to the Officer of the Deck (OOD) on rules of the road, navigation plans, and other navigation matters. Submarine Navigation Operators usually work under the Supervision of a Submarine Navigation Technician or Submarine Navigation Manager.

DoD Relationship O*NET Relationship

Title and Group:	Code and Area:	Title and SOC Code:	Name and Family Code:
Navigation, Communication, and	110200	Electrical and Electronics Installers and	Installation, Maintenance, and Repair
Countermeasure, N.E.C		Repairers, Transportation Equipment	
110	11	49-2093.00	49

ADMINISTRATION

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Compute times of moonris		
			Mathematics	Mathematical Reasoning
			Critical Thinking	Problem Sensitivity
E4	CORE	Compute times of morning		
			Mathematics	Mathematical Reasoning
			Critical Thinking	Problem Sensitivity
E4	CORE	Compute times of sunrise		
			Mathematics	Mathematical Reasoning
			Critical Thinking	Problem Sensitivity
E5	CORE	Conduct entering port che	cks	
			Complex Problem Solving	Problem Sensitivity
			Critical Thinking	Written Comprehension
E4	CORE	Conduct navigation pre-ur		
			Complex Problem Solving	Problem Sensitivity
			Critical Thinking	Written Comprehension
E4	CORE	Convert between Greenwi	ch Mean Time (GMT) and Zone Time (ZT))
			Mathematics	Mathematical Reasoning
			Science	Number Facility
E5	CORE	Convert between time and	arc	
			Mathematics	Mathematical Reasoning
			Science	Number Facility
E4	CORE	Identify time zones and sta	andard meridians	•
		•	Critical Thinking	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Interpret blueprints		0
		1 1	Complex Problem Solving	Deductive Reasoning
			Critical Thinking	Written Comprehension
E4	CORE	Maintain bearing logs	g	r
			Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
E4	CORE	Maintain compass logs	Treatming comprehension	Withield Ediptiession
2.	COLL	mamam compass rogs	Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
E4	CORE	Maintain deck logs	reading Comprehension	THEN Expression
D .	CORE	manual deck logs	Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
			reading Comprehension	THEN Expression

E4	CORE	Maintain fathometer logs	416	
			Management of Material Resources	Information Ordering
F4	CORE	Maintain position logs	Reading Comprehension	Written Expression
£4	CORE	Maintain position logs	Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
E5	CORE	Maintain Stratagic Waano	ons System (SWS) data packages	written Expression
EJ	CORE	Maintain Strategic Weapo	Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
F4	CORE	Maintain Stratagia Waana	0 1	Written Expression
£4	CORE	Maintain Strategic Weapo	•	Information Outsing
			Management of Material Resources	Information Ordering
D.5	CORE	Maintain Ctuataaia Waana	Reading Comprehension	Written Expression
E5	CORE	Maintain Strategic Weapo	ons System (SWS) special publications	Information Outside
			Management of Material Resources	Information Ordering
E.C.	CORE	D M (D	Reading Comprehension	Written Expression
E6	CORE	Prepare Movement Repor	· ·	E1
			Reading Comprehension	Fluency of Ideas
			Complex Problem Solving	Written Expression
E4	CORE	Prepare position reports		
			Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E4	CORE	Record observed sea cond		
			Writing	Written Expression
			Critical Thinking	Information Ordering
E4	CORE	Record observed sunrises	and sunsets	
			Writing	Written Expression
			Critical Thinking	Information Ordering
E4	CORE	Record observed weather	conditions	
			Writing	Written Expression
			Critical Thinking	Information Ordering
E4	CORE	Review Hazardous Materi	al Users Guides (HMUG)	
			Reading Comprehension	Written Comprehension
			Critical Thinking	Problem Sensitivity

CHART PREPARATIONS

Paygrade	Task Type	Task Statements	Skills	<u>Abilities</u>
E4	CORE	Calculate Estimated Time	` '	
			Mathematics	Deductive Reasoning
	~~~	~	Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate red and yellow s		
			Mathematics	Deductive Reasoning
	~~~		Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate rudder angles fo		
			Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E4	CORE	Calculate Speed Of Advar		
			Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate turn bearings		
			Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate turn points		
			Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate turn ranges	· ·	
		_	Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Compute times of high and	d low tide	
			Mathematics	Mathematical Reasoning
			Critical Thinking	Problem Sensitivity
E5	CORE	Compute water levels at h	igh and low tide	ž
		•	Mathematics	Mathematical Reasoning
			Critical Thinking	Problem Sensitivity
E4	CORE	Correct nautical charts	o .	,
			Critical Thinking	Problem Sensitivity
			Mathematics	Written Comprehension
E4	CORE	Determine buoy systems		r
			Critical Thinking	Deductive Reasoning
			Judgment and Decision Making	Written Comprehension

E5	CORE	Review charts for accuracy		
20	00112	review enacts for decarde,	Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E6	CORE	Determine chart allowances	s Critical Thinking	Deductive Reasoning
E4	CORE	Determine chart data source	Judgment and Decision Making	Written Comprehension
£4	CORE	Determine chart data source	Critical Thinking	Deductive Reasoning
E5	CORE	Determine danger areas	Judgment and Decision Making	Written Comprehension
20	COLE	Determine danger areas	Critical Thinking	Deductive Reasoning
E5	CORE	Determine lines of demarca	Judgment and Decision Making ation	Written Comprehension
			Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E6	CORE	Determine navigation publi	ications allowances	*
			Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E4	CORE	Determine shoal water	Cuitical Thinking	Dadustina Bassanina
			Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E5	CORE	Graph tidal data	Mathematics	Number Facility
			Critical Thinking	Number Facility Mathematical Reasoning
E5	CORE	Interpret chart information	using sailing directions and fleet guides Complex Problem Solving	Dadustina Bassanina
			Critical Thinking	Deductive Reasoning Written Comprehension
E4	CORE	Inventory charts	Management of Material Resources	Problem Sensitivity
			Mathematics	Written Comprehension
E4	CORE	Inventory navigation public	cations Management of Material Resources	Problem Sensitivity
			Mathematics	Written Comprehension
E4	CORE	Maintain chart files	Management of Material Resources	Information Ordering
P.C	CODE	Mark and the state of the state	Reading Comprehension	Written Expression
E5	CORE	Maintain intelligence plots	Management of Material Resources	Information Ordering
E5	CORE	Maintain payination hazard	Reading Comprehension	Written Expression
E5	CORE	Maintain navigation hazard	Management of Material Resources	Information Ordering
E4	CORE	Maintain navigation publication	Reading Comprehension	Written Expression
L4	CORL	Wantam navigation publica	Management of Material Resources	Information Ordering
E5	CORE	Maintain Notice To Marine	Reading Comprehension ers (NTM) files	Written Expression
			Management of Material Resources	Information Ordering
E5	CORE	Maintain ship's current oper	Reading Comprehension rations binders	Written Expression
		r	Management of Material Resources	Information Ordering
E5	CORE	Maintain ship's Navigationa	Reading Comprehension al Area (NAVAREA), Hydrographic Atla	Written Expression antic (HYDROLANT), and
		Hydrographic Pacific (HYI	DROPAC) files	
			Management of Material Resources Reading Comprehension	Information Ordering Written Expression
E5	CORE	Order charts	Management of Material Resources	Written Comprehension
			Equipment Selection	Number Facility
E5	CORE	Order navigation publication	ons Management of Material Resources	Written Comprehension
			Equipment Selection	Number Facility
E5	CORE	Plot anchorages	Critical Thinking	Written Expression
E4	CODE	Diot are of visibility of 11-1-	Mathematics	Mathematical Reasoning
E4	CORE	Plot arc of visibility of light	ts Critical Thinking	Written Expression
E5	CORE	Plot danger bearings	Mathematics	Mathematical Reasoning
EJ.	CORE	i ioi dangei ocarings	Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning

E5	CORE	Plot danger ranges		
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Plot maximum deviat	ions from proposed track	
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E6	CORE	Plot moving havens		Ţ.
		_	Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Plot swing and drag c	rircles	Ţ.
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Plot turn slide bars		
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Predict current directi	ion and speed	
			Mathematics	Mathematical Reasoning
			Science	Information Ordering
E5	CORE	Prepare charts for nav	vigation	· ·
		•	Complex Problem Solving	Finger Dexterity
			Mathematics	Information Ordering
E5	CORE	Prepare open ocean tr	acks	· ·
			Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E5	CORE	Prepare precision and	horing plans	· ·
		• •	Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E5	CORE	Prepare restricted wat	ter tracks	· ·
		•	Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E5	CORE	Recommend courses	for navigating a measured mile	· ·
			Complex Problem Solving	Deductive Reasoning
			Speaking	Information Ordering
E5	CORE	Select essential charts	s for proposed transits	
			Complex Problem Solving	Written Comprehension
			Equipment Selection	Deductive Reasoning
			= *	ŭ

COMMUNICATIONS AND ALARM SYSTEMS

<u>Paygrade</u> E4	Task Type CORE	Task Statements Adjust loudspeakers	<u>Skills</u>	<u>Abilities</u>
		.,	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Align sound-powered tele	phones distribution matrixes	•
			Equipment Maintenance	Manual Dexterity
			Operation and Control	Rate Control
E4	CORE	Clean alarm switchboards	•	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean amplified communi	ication systems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean central amplifier sy	stems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean intercommunicating	g stations	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean liquid level alarm se	ensing devices	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean loudspeakers		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean microphone control	stations	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E5	CORE	Clean pressure alarm sens		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity

E4	CORE	Clean security alarm sensing devices	
		Equipment Maintenance	Manual Dexterity
E4	CORE	Management of Material Resources Clean shore telephone systems	Problem Sensitivity
E.	CORE	Equipment Maintenance	Manual Dexterity
		Management of Material Resources	Problem Sensitivity
E4	CORE	Clean sound-powered telephone systems	
		Equipment Maintenance	Manual Dexterity
E4	CORE	Management of Material Resources	Problem Sensitivity
E4	CORE	Clean temperature alarm sensing devices Equipment Maintenance	Manual Dexterity
		Management of Material Resources	Problem Sensitivity
E4	CORE	Cross-connect sound-powered telephone circuits	1 rootent benburniy
		Systems Analysis	Information Ordering
		Equipment Maintenance	Problem Sensitivity
E4	CORE	Un-rig emergency sound-powered telephone circuits	
		Installation	Manual Dexterity
E4	CORE	Management of Material Resources	Finger Dexterity
E4	CORE	Inspect intercommunicating stations Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect liquid level alarm sensing devices	1 rootem sensuivuy
		Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect loudspeakers	
		Equipment Maintenance	Near Vision
T.4	CORE	Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect microphone control stations	Near Vision
		Equipment Maintenance Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect security alarm sensing devices	1 robiem sensitivity
		Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect temperature alarm sensing devices	
		Equipment Maintenance	Near Vision
F.4	CORE	Quality Control Analysis	Problem Sensitivity
E4	CORE	Isolate sound-powered telephone circuits Troubleshooting	Problem Sensitivity
		Complex Problem Solving	Information Ordering
E4	CORE	Lubricate intercommunicating station components	injormation ordering
		Equipment Maintenance	Manual Dexterity
		Management of Material Resources	Control Precision
E4	CORE	Replace microphone control station components	
		Equipment Maintenance	Control Precision
E4	CORE	Installation Rig emergency sound-powered telephone circuits	Problem Sensitivity
L4	CORE	Equipment Selection	Selective Attention
		Critical Thinking	Written Comprehension
E4	CORE	Rig shore telephone lines	1
		Equipment Selection	Selective Attention
		Critical Thinking	Written Comprehension
E4	CORE	Test alarm switchboards	
		Quality Control Analysis	Deductive Reasoning
E4	CORE	Monitoring Test central amplifier systems	Information Ordering
L+	CORL	Quality Control Analysis	Deductive Reasoning
		Monitoring	Information Ordering
E4	CORE	Test intercommunicating stations	
		Quality Control Analysis	Deductive Reasoning
		Monitoring	Information Ordering
E4	CORE	Test liquid level alarm sensing devices	
		Quality Control Analysis Monitoring	Deductive Reasoning
E4	CORE	Monitoring Test loudspeakers	Information Ordering
۵.	COLL	Quality Control Analysis	Deductive Reasoning
		Monitoring	Information Ordering
E4	CORE	Test microphone control stations	
		Quality Control Analysis	Deductive Reasoning
		Monitoring	Information Ordering

E5	CORE	Test pressure alarm	sensing devices	
		•	Quality Control Analysis	Deductive Reasoning
			Monitoring	Information Ordering
E4	CORE	Test security alarm s	sensing devices	
			Quality Control Analysis	Deductive Reasoning
			Monitoring	Information Ordering
E5	CORE	Test temperature ala	rm sensing devices	
			Quality Control Analysis	Deductive Reasoning
			Monitoring	Information Ordering
E4	CORE	Troubleshoot loudsp	eakers	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot microp	phone control stations	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Un-rig shore telepho	one lines	
			Equipment Maintenance	Finger Dexterity
			Installation	Manual Dexterity

ELECTRONIC NAVIGATION SYSTEMS

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean dummy log circuits	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean Global Positioning		1 robiem sensitivity
D.	CORE	Cicuir Giobai i ositioning	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean gyrocompass syster		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean inertial navigation s	systems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean navigation sonar sy	stems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean radar systems		
			Equipment Maintenance	Manual Dexterity
F.4	CODE		Management of Material Resources	Problem Sensitivity
E4	CORE	Clean rodmeters	F	16 1D : '
			Equipment Maintenance	Manual Dexterity
E5	CORE	Class speed and distance	Management of Material Resources	Problem Sensitivity
E3	CORE	Clean speed and distance		Manual Dartarity
			Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean synchro signal amp		1 robiem sensitivity
LT	COKL	Cican synchro signar amp	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean Voyage Manageme		1 robiem Sensitivity
2.	COLL	Clean voyage manageme	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Un-rig portable commerci		
			Installation	Manual Dexterity
			Management of Material Resources	Finger Dexterity
E5	CORE	Enter navigation and voya	ge plans into Voyage Management System	
			Critical Thinking	Information Ordering
			Operation and Control	Near Vision
E4	CORE	Inspect rodmeters		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E5	CORE	Inspect speed and distance		
			Equipment Maintenance	Near Vision
T-4	CODE	T	Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect Voyage Managem		M
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity

E4	CORE	Interpret fathometer displ	ays	
			Complex Problem Solving	Deductive Reasoning
			Critical Thinking	Perceptual Speed
E5	CORE	Interpret inertial navigation	on system data	
			Complex Problem Solving	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Interpret radar displays		
			Complex Problem Solving	Deductive Reasoning
			Critical Thinking	Perceptual Speed
E4	CORE	Lubricate synchro signal		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Control Precision
E4	CORE	Operate dummy log circu		
			Operation and Control	Manual Dexterity
T. 4	CODE		Systems Analysis	Problem Sensitivity
E4	CORE	Operate fathometers	0 : 10 : 1	M 1D : :
			Operation and Control	Manual Dexterity
E4	CORE	0 (011111111111111111111111111111111111	Systems Analysis	Problem Sensitivity
E4	CORE	Operate Global Positionir		Managar Dantanita
			Operation and Control	Manual Dexterity
F4	CORE	Operate inertial navigatio	Systems Analysis	Problem Sensitivity
L/4	COKE	Operate mertiai navigano	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate navigation sonar		1 robiem Sensitivity
L4	CORL	Operate havigation sonar	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate radar systems	Systems Theolysis	1 rootem Schshivily
2.	COLL	Sperate radar systems	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate Voyage Manager		
		o promote stylego manager	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Record fathometer sound		,
			Writing	Written Expression
			Critical Thinking	Information Ordering
E4	CORE	Rig portable commercial	radar equipment	
			Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension

GENERAL ELECTRICAL SYSTEMS

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust ship's entertainmer	it systems	
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Clean aldis lamps		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean Central Atmosphere	e Monitoring System (CAMS) equipment	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean chill water indicating	ig systems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean data transmission sy	ystems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E5	CORE	Clean flow meter systems		
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean internal frequency s	tandards	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean mast position indica	ation systems	
		-	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity

E4	CORE	Clean mini-combined unit		
E4	CORE	Clean pressure sensing dev	Equipment Maintenance Management of Material Resources vices	Manual Dexterity Problem Sensitivity
Z.			Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean ship's entertainment	systems Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean synchro repeater sys	stems Equipment Maintenance	Manual Dexterity
E5	CORE	Clean Tank Level Indicate	Management of Material Resources or (TLI) systems Equipment Maintenance	Problem Sensitivity Manual Dexterity
E4	CORE	Clean temperature monitor	Management of Material Resources ring systems	Problem Sensitivity
E4	CORE	Clean valve control system	Equipment Maintenance Management of Material Resources as	Manual Dexterity Problem Sensitivity
		•	Equipment Maintenance	Manual Dexterity
E4	CORE	Clean valve position indica	Management of Material Resources ating systems Equipment Maintenance	Problem Sensitivity Manual Dexterity
E4	CORE	Clean ventilation airflow i	Management of Material Resources	Problem Sensitivity
124	CORE	Clean ventuation annow i	Equipment Maintenance	Manual Dexterity
E4	CORE	Inspect aldis lamps	Management of Material Resources	Problem Sensitivity
E4	CORE	Inspect aldis lamps	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect mast position indic	cation systems Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect ship's entertainment	•	17 17 1
			Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E5	CORE	Inspect Tank Level Indica		1 robtem Schulivity
			Equipment Maintenance	Near Vision
E4	CORE	Inspect temperature monit	Quality Control Analysis oring systems	Problem Sensitivity
		· · · · · · · · · · · · · · · · · · ·	Equipment Maintenance	Near Vision
E4	CORE	Inspect valve control syste	Quality Control Analysis	Problem Sensitivity
124	CORE	inspect valve control syste	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect valve position indi	cating systems Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect ventilation airflow	•	37 17.
			Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Lubricate synchro repeater	~ :	1 rootem sensurity
			Equipment Maintenance	Manual Dexterity Control Precision
E4	CORE	Lubricate valve control sys	Management of Material Resources stem components	Control Precision
		·	Equipment Maintenance	Manual Dexterity
E4	CORE	Operate aldis lamps	Management of Material Resources	Control Precision
LŦ	CORL	Operate aidis ianips	Operation and Control	Manual Dexterity
T.	CORF		Systems Analysis	Problem Sensitivity
E4	CORE	Operate Central Atmosphe	ere Monitoring System (CAMS) equipment Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate internal frequency		Manual Done
			Operation and Control Systems Analysis	Manual Dexterity Problem Sensitivity
E4	CORE	Operate valve control systematical control control systematical control co	ems	•
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity

E4	CORE	Test ship's entertainment s	ystems	
E5	CORE	Troubleshoot aldis lamps	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
	COME	maps	Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning

INFORMATION SYSTEMS

Paygrade	Task Type	Task Statements	<u>Skills</u>	Abilities
E4	CORE	Clean Information System	(IS) components	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Inventory Local Area Net	work (LAN) hardware	
			Management of Material Resources	Problem Sensitivity
			Mathematics	Written Comprehension
E4	CORE	Operate backup software		
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate Government Off-	The-Shelf (GOTS) software	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Optimize Local Area Netv	work (LAN) traffic	
			Critical Thinking	Deductive Reasoning
			Judgment and Decision Making	Information Ordering

MISCELLANEOUS

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean cathodic protection	* *	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E6	CORE	Decode signals using Alli	ed Tactical Publications (ATP)	
			Critical Thinking	Mathematical Reasoning
			Systems Analysis	Problem Sensitivity
E6	CORE	Encode signals using Alli	ed Tactical Publications (ATP)	
			Critical Thinking	Mathematical Reasoning
			Systems Analysis	Problem Sensitivity
E4	CORE	Hoist flags, pennants, and		
			Critical Thinking	Manual Dexterity
			Equipment Selection	Speed of Limb Movement
E4	CORE	Inspect cathodic protection	on (Zincs)	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Maintain chronometers		
			Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
E5	CORE	Maintain entertainment m	nedia inventories	· ·
			Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression
E4	CORE	Operate Night Vision Dev	vices (NVD)	_
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Render honors	, , , , , , , , , , , , , , , , , , ,	•
			Critical Thinking	Response Orientation
			Judgment and Decision Making	Speech Recognition
E4	CORE	Replace cathodic protection	on (Zincs)	•
			Equipment Maintenance	Static Strength
			Installation	Stamina
E4	CORE	Rig bridge for dive		
		0 0	Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension
E4	CORE	Rig bridge for in port	0	*
			Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension
E4	CORE	Rig bridge for surface		
		5 5100	Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension

Management of Personnel Resources Coordination Information Ordering Time Sharing

NAVIGATION AND PILOTING

<u>Paygrade</u> E5	Task Type CORE	Task Statements Skills Advise Officer of the Deck (OOD) of chain scope required for ancho	<u>Abilities</u> ring
		Critical Thinking	Oral Expression
D5	CORE	Mathematics Advice Officer of the Deek (OOD) of seven don't and bettern while	Speech Clarity
E5	CORE	Advise Officer of the Deck (OOD) of ocean depth and bottom while Speaking	Oral Expression
		Mathematics Speaking	Speech Clarity
E5	CORE	Advise Officer of the Deck (OOD) on the Rules of the Road	specen carry
		Speaking	Oral Expression
		Learning Strategies	Speech Clarity
E4	CORE	Calculate position relative to Plan of Intended Movement (PIM)	D 1 - 1 D - 1
		Mathematics Critical Thinking	Deductive Reasoning
E4	CORE	Calculate set and drift	Mathematical Reasoning
LT	CORE	Mathematics	Deductive Reasoning
		Science	Mathematical Reasoning
E5	CORE	Calculate tide effects on ship's movements	· ·
		Science	Inductive Reasoning
	CODE	Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate wind effects on ship's movements	r I d' n
		Science Critical Thinking	Inductive Reasoning
E4	CORE	Compare fathometer readings with charts	Mathematical Reasoning
LT	CORE	Mathematics	Mathematical Reasoning
		Critical Thinking	Written Comprehension
E4	CORE	Compare gyrocompass and inertial headings	•
		Quality Control Analysis	Mathematical Reasoning
		Mathematics	Written Comprehension
E4	CORE	Compute advance and transfer	M.d. d. ID. d.
		Mathematics Critical Thinking	Mathematical Reasoning Problem Sensitivity
E4	CORE	Compute azimuths to the sun	1 robiem sensitivity
D.	COILE	Mathematics	Mathematical Reasoning
		Critical Thinking	Problem Sensitivity
E4	CORE	Compute course and speed made good	
		Mathematics	Mathematical Reasoning
E4	CORE	Critical Thinking	Problem Sensitivity
E4	CORE	Compute current direction and speed Mathematics	Mathematical Peasening
		Mainematics Critical Thinking	Mathematical Reasoning Problem Sensitivity
E6	CORE	Compute position uncertainty using fix expansion method	1 robiem Sensitivity
		Mathematics	Mathematical Reasoning
		Critical Thinking	Problem Sensitivity
E6	CORE	Compute radar repeater bearings and range errors	
		Mathematics	Mathematical Reasoning
E5	CORE	Conduct strike group operations	Problem Sensitivity
ES	COKE	Conduct strike group operations Complex Problem Solving	Deductive Reasoning
		Judgment and Decision Making	Written Comprehension
E4	CORE	Convert between relative bearings and true bearings	
		Mathematics	Mathematical Reasoning
		Critical Thinking	Number Facility
E4	CORE	Correlate observed celestial data with air almanacs	Madesmatical P
		Critical Thinking Mathematics	Mathematical Reasoning
E4	CORE	Correlate speed, time, and distance	Information Ordering
۵.	COILL	Critical Thinking	Mathematical Reasoning
		Mathematics	Information Ordering
E4	CORE	Determine gyrocompass error	· ·
		Critical Thinking	Deductive Reasoning
		Judgment and Decision Making	Written Comprehension

E5	CORE	Determine latitude and longitude from plotted positions on nautical Critical Thinking	charts Deductive Reasoning
77.5	CORE	Judgment and Decision Making	Written Comprehension
E5	CORE	Evaluate radar information Systems Evaluation	Selective Attention
		Operation Monitoring	Inductive Reasoning
E6	CORE	Extract navigation information from Operation Orders (OPORDS)	maneuve neasoning
		Reading Comprehension	Written Comprehension
		Active Learning	Memorization
E4	CORE	Fix ship's position using a running fix	
		Mathematics	Number Facility
		Critical Thinking	Mathematical Reasoning
E4	CORE	Fix ship's position using bearing and range to a single point	
		Mathematics	Number Facility
77.5	CODE	Critical Thinking	Mathematical Reasoning
E5	CORE	Fix ship's position using latitude and longitude	V 1 F 11
		Mathematics	Number Facility
E4	CORE	Critical Thinking	Mathematical Reasoning
E4	CORE	Fix ship's position using multiple soundings Mathematics	Number Facility
		Critical Thinking	Mathematical Reasoning
E5	CORE	Fix ship's position using radar range arcs	тапетансы кеазонінд
L 3	CORE	Mathematics	Number Facility
		Critical Thinking	Mathematical Reasoning
E5	CORE	Fix ship's position using visual bearing lines	
		Mathematics	Number Facility
		Critical Thinking	Mathematical Reasoning
E5	CORE	Identify allied flags and pennants	· ·
		Critical Thinking	Far Vision
		Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify day markers	
		Critical Thinking	Far Vision
		Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify distress signals	
		Critical Thinking	Far Vision
E4	CODE	Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify National Ensign and Union Jack displays	F 17' '
		Critical Thinking	Far Vision
E4	CORE	Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify navigational day shape displays Critical Thinking	Far Vision
		Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify navigational light displays	Visital Color Discrimination
E.	COILE	Critical Thinking	Far Vision
		Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify range markers	
		Critical Thinking	Far Vision
		Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify reduced visibility situations	
		Critical Thinking	Deductive Reasoning
		Judgment and Decision Making	Problem Sensitivity
E4	CORE	Identify signal flags and pennant displays	
		Critical Thinking	Far Vision
5 .4	CODE	Judgment and Decision Making	Visual Color Discrimination
E4	CORE	Identify visual storm warning signals	F 17' '
		Critical Thinking	Far Vision
E4	CORE	Judgment and Decision Making	Visual Color Discrimination
L4	COKE	Interpret bell signals	Daduatina Pagganing
		Complex Problem Solving Critical Thinking	Deductive Reasoning Auditory Attention
E4	CORE	Interpret cloud formations and heights	ramory ratemon
.	CORL	Complex Problem Solving	Deductive Reasoning
		Critical Thinking	Far Vision
E4	CORE	Interpret gong signals	
		Complex Problem Solving	Deductive Reasoning
		Critical Thinking	Auditory Attention
E4	CORE	Interpret whistle signals	•
		Complex Problem Solving	Deductive Reasoning
		Critical Thinking	Auditory Attention

E6	CORE	Recommend paths for storm evasion	0.45
		Critical Thinking	Oral Expression
E4	CODE	Judgment and Decision Making	Perceptual Speed
E4	CORE	Monitor harbor common circuits	Auditom, Attoution
		Active Listening	Auditory Attention
D5	CORE	Management of Material Resources	Information Ordering
E5	CORE	Obtain celestial data by marine sextant	F Wiston
		Mathematics Management of Material Bossesses	Far Vision
E4	CODE	Management of Material Resources	Information Ordering
E4	CORE	Obtain celestial data from periscope	F 17: '
		Mathematics	Far Vision
7. 4	CODE	Management of Material Resources	Information Ordering
E4	CORE	Obtain visual bearings using a periscope	
		Mathematics	Far Vision
		Management of Material Resources	Information Ordering
E4	CORE	Obtain visual bearings using an alidade	
		Mathematics	Far Vision
		Management of Material Resources	Information Ordering
E4	CORE	Operate navigation lights	
		Operation and Control	Manual Dexterity
		Systems Analysis	Problem Sensitivity
E4	CORE	Operate Very High Frequency (VHF) equipment while on surface	
		Operation and Control	Manual Dexterity
		Systems Analysis	Problem Sensitivity
E4	CORE	Plot locations and probable paths of storm centers	
		Critical Thinking	Written Expression
		Science	Mathematical Reasoning
E4	CORE	Plot ship's position during navigation details	o o
		Critical Thinking	Written Expression
		Mathematics	Mathematical Reasoning
E5	CORE	Plot ship's position during open ocean navigation	
		Critical Thinking	Written Expression
		Mathematics	Mathematical Reasoning
E4	CORE	Plot weather message information	
2.	COLL	Critical Thinking	Written Expression
		Mathematics	Mathematical Reasoning
E4	CORE	Predict ship's future positions	manemanean reasoning
LT	CORE	Mathematics	Mathematical Reasoning
		Critical Thinking	Information Ordering
E4	CORE	Recommend courses for man overboard recoveries	Injormation Ordering
L+	COKE	Complex Problem Solving	Daductiva Pagganing
		Speaking	Deductive Reasoning Information Ordering
E4	CORE	Recommend courses for precision anchoring	Injormation Ordering
L4	COKE	Complex Problem Solving	Daductiva Pagganing
		1	Deductive Reasoning
E4	CODE	Speaking Section and the secti	Information Ordering
E4	CORE	Set up parallel motion protractors	E' D . '
		Complex Problem Solving	Finger Dexterity
E4	CODE	Equipment Maintenance	Near Vision
E4	CORE	Sight and report visual contacts	W. ICI D
		Complex Problem Solving	Visual Color Discrimination
	~~~	Speaking	Oral Expression
E4	CORE	Sound danger signals	D . G . I
		Equipment Selection	Rate Control
		Critical Thinking	Finger Dexterity
E4	CORE	Sound ship's bells and gongs	
		Equipment Selection	Rate Control
		Critical Thinking	Finger Dexterity
E4	CORE	Sound ship's whistles	
		Equipment Selection	Rate Control
		Critical Thinking	Finger Dexterity

# POWER GENERATION AND DISTRIBUTION SYSTEMS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<b>Abilities</b>
E4	CORE	Adjust Motor Generators	(MG)	
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust voltage regulators		
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity

E4	CORE	Align Action Cutout (ACO) switchboards	
		Equipment Maintenance Manual Dex	
E4	CODE	Operation and Control Rate Control	ol
E4	CORE	Align Interior Communications (IC) switchboards	
		Equipment Maintenance Manual Dex Operation and Control Rate Contro	-
E4	CORE	Operation and Control Rate Control Band cables	u
LT	COKL	Repairing Manual Dex	rtarity
		Equipment Maintenance Visualizatio	
E4	CORE	Clean Action Cutout (ACO) switchboards	
2.	COLL	Equipment Maintenance Manual Des	xterity
		Management of Material Resources Problem Sea	
E4	CORE	Clean cables	
		Equipment Maintenance Manual Dex	cterity
		Management of Material Resources Problem Ser	nsitivity
E4	CORE	Clean Interior Communications (IC) switchboards	•
		Equipment Maintenance Manual Dex	xterity
		Management of Material Resources Problem Ser	nsitivity
E4	CORE	Clean power supplies	
		Equipment Maintenance Manual Dex	
		Management of Material Resources Problem Sea	nsitivity
E5	CORE	Clean transformers	
		Equipment Maintenance Manual Dex	
		Management of Material Resources Problem Ser	nsitivity
E5	CORE	Clean voltage regulators	_
		Equipment Maintenance Manual Dex	
77.5	CORE	Management of Material Resources Problem Ser	nsitivity
E5	CORE	Inspect voltage regulators	
		Equipment Maintenance Near Vision	
F4	CORE	Quality Control Analysis Problem Ser Operate Action Cutout (ACO) switchboards	nsitivity
L4	COKE	Operation and Control Manual Des	rtarity
		Systems Analysis Problem Sei	
F4	CORE	Operate Automatic Bus Transfers (ABT)	isilivily
LT	CORE	Operation and Control Manual Des	xterity
		Systems Analysis Problem Ser	
F4	CORE	Operate Interior Communications (IC) switchboards	istititiy
2.	COLL	Operation and Control Manual Des	xterity
		Systems Analysis Problem Sea	
E4	CORE	Operate Manual Bus Transfers (MBT)	,
		Operation and Control Manual Dex	xterity
		Systems Analysis Problem Sea	nsitivity
E4	CORE	Operate Motor Generators (MG)	•
		Operation and Control Manual Dex	xterity
		Systems Analysis Problem Sea	

# SHIP CONTROL SYSTEMS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	Abilities
E4	CORE	Clean Ballast Control Par	nels (BCP)	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean depth sensing syste	ems	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean Ship's Control Pane	els (SCP)	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Clean ship's control syste	ms	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Operate depth sensing sys	stems	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Operate Ship's Control Pa	nnels (SCP)	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E4	CORE	Operate ship's control sys	tems	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity

# STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>ties</u>	<u>Skills</u>	Task Statements	Task Type	<u>Paygrade</u>
		Clean hovering systems	CORE	E4
al Dexterity	Equipment Maintenance			
lem Sensitivity	Management of Material Resources			
	on systems	Clean missile compensation	CORE	E4
al Dexterity	Equipment Maintenance			
lem Sensitivity	Management of Material Resources			
	ion systems	Inspect missile compensati	CORE	E4
Vision	Equipment Maintenance			
lem Sensitivity	Quality Control Analysis			
lem Sensitivii ual Dexterity lem Sensitivii Vision	Management of Material Resources on systems Equipment Maintenance Management of Material Resources ion systems Equipment Maintenance			

Job Code 001187

Job Family NOC Short Title (30 Characters) Short Title (10 Characters)

Installation, Maintenance, and Repair 4900-2093.00 SUBMARINE NAVIGATION TEC SSNAV TEC

<u>Pay Plan</u> <u>Career Field</u> <u>Proficiency Level</u> <u>Other Relationships and Rules:</u>

Enlisted ET(V) A/J NECs may include 14GM, 14NO, 14NO, 14NP, 14TK, 14XO, and 14XM

#### **Job Description**

Submarine Navigation Technicians maintain, troubleshoot, and repair electronic equipment used for detection, tracking, recognition, and identification of maritime vessels. They operate and maintain radar systems, interior communications circuits, Voyage Management Systems (VMS), alarm systems, ship's control stations, entertainment systems, gyrocompasses, Central Atmosphere Monitoring Systems (CAMS), liquid level detection and tank level indication circuits, flowmeters, pressure and temperature sensing circuits, valve position indicators, hovering systems, and missile compensation systems. They read and interpret schematics and block diagrams; apply general working knowledge of electricity and electronics to repair electrical/electronic cables and connectors; localize malfunctions and repair or replace faulty parts or subassemblies; align, adjust, calibrate, and perform corrective maintenance on navigation equipment; supervise navigation division maintenance, draft naval messages, develop navigation divisional watch bills, maintain navigation division records. Submarine Navigation Technicians work independent and train Submarine Navigation Operators.

#### DoD Relationship O*NET Relationship

Title and Group:Code and Area:Title and SOC Code:Name and Family Code:Navigation, Communication, and Countermeasure, N.E.C110200Electrical and Electronics Installers and Repair Repairers, Transportation EquipmentInstallation, Maintenance, and Repair1101149-2093.0049

#### ADMINISTRATION

<u>Paygrade</u> E5	Task Type CORE	Task Statements Analyze schematic diagram	<u>Skills</u> ms	<u>Abilities</u>
		, ,	Reading Comprehension	Inductive Reasoning
			Complex Problem Solving	Problem Sensitivity
E5	CORE	Analyze wiring diagrams		
			Reading Comprehension	Inductive Reasoning
			Systems Analysis	Problem Sensitivity
E5	CORE	Collect navigation equipm		
			Quality Control Analysis	Number Facility
			Systems Evaluation	Problem Sensitivity
E4	CORE	Conduct navigation pre-ur		
			Complex Problem Solving	Problem Sensitivity
			Critical Thinking	Written Comprehension
E5	CORE	Conduct Strategic Weapor	ns System (SWS) strategic navigation subs	
			Operation and Control	Deductive Reasoning
77.5	CORF		Equipment Maintenance	Problem Sensitivity
E5	CORE	Create Quality Assurance		
			Quality Control Analysis	Oral Expression
E.4	CORE		Reading Comprehension	Originality
E4	CORE	Draw schematic diagrams		
			Technology Design	Manual Dexterity
D.C	CORE	D 11	Operation and Control	Information Ordering
E5	CORE	Draw wiring diagrams	T. I. I. D	16 15
			Technology Design	Manual Dexterity
E4	CODE	T	Operation and Control	Information Ordering
E4	CORE	Interpret blueprints		
			Complex Problem Solving	Deductive Reasoning
E.C	CODE	T	Critical Thinking	Written Comprehension
E5	CORE	Interpret information book		D. J. dies B
			Complex Problem Solving	Deductive Reasoning
E4	CODE	T	Critical Thinking	Written Comprehension
E4	CORE	Interpret schematic diagra		D. J. dies B
			Complex Problem Solving	Deductive Reasoning
E5	CORE	Maintain Stratagia Waana	Critical Thinking ns System (SWS) data packages	Written Comprehension
EJ.	COKE	Maintain Strategic Weapo	Management of Material Resources	Information Ordering
			Reading Comprehension	Written Expression

E4	CORE	Maintain Strategic Weapons System (SWS) logs	
		Management of Material Resources	Information Ordering
		Reading Comprehension	Written Expression
E5	CORE	Prepare navigation records for shipment	_
		Reading Comprehension	Written Expression
		Complex Problem Solving	Information Ordering
E5	CORE	Prepare Trouble and Failure Reports (TFR)	
		Reading Comprehension	Written Expression
		Complex Problem Solving	Information Ordering
E4	CORE	Review Hazardous Material (HAZMAT) Users Guides (HMUG)	
		Reading Comprehension	Written Comprehension
		Critical Thinking	Problem Sensitivity
E6	CORE	Review blueprints for accuracy	
		Reading Comprehension	Written Comprehension
		Quality Control Analysis	Problem Sensitivity
E6	CORE	Review systems diagram for accuracy	
		Reading Comprehension	Written Comprehension
		Quality Control Analysis	Problem Sensitivity

# **CHART PREPARATIONS**

<b>Paygrade</b>	Task Type	<u>Task Statements</u> <u>Ski</u>	<u>lls</u>	<u>Abilities</u>
E4	CORE	Prepare ship's Plan of Intended	Movement (PIM)	
		Rea	ading Comprehension	Written Expression
		Con	mplex Problem Solving	Information Ordering

# COMMUNICATIONS AND ALARM SYSTEMS

<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Adjust alarm switchboard	<u>Skills</u>	<u>Abilities</u>
ES	COKE	Aujust alaini switchooaru	S Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust amplified commun		
		.3	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust central amplifier sy	ystems	·
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Adjust loudspeakers		
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Clean pressure alarm sens	ing devices	
			Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Cross-connect sound-pow	ered telephone circuits	
			Systems Analysis	Information Ordering
			Equipment Maintenance	Problem Sensitivity
E4	CORE	Inspect alarm switchboard		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect amplified commun		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect central amplifier s	•	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect intercommunicating		
			Equipment Maintenance	Near Vision
<b>5</b> .4	CORE		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect liquid level alarm		
			Equipment Maintenance	Near Vision
F.4	CORE		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect loudspeakers	Environment Maintenance	M
			Equipment Maintenance	Near Vision
E4	CORE	Inspect microphone contro	Quality Control Analysis	Problem Sensitivity
124	CORE	Inspect microphone contro	of stations Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
			Quanty Control Analysis	1 robiem sensitivity

E5	CORE	Inspect pressure alarm sensing devices	
		Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect security alarm sensing devices	M IV: - :
		Equipment Maintenance	Near Vision
E4	CORE	Quality Control Analysis Inspect shore telephone systems	Problem Sensitivity
124	COKE	Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect sound-powered telephone systems	1 rootem Sensurvity
2.	COLL	Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect temperature alarm sensing devices	,
		Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E5	CORE	Install Portable Ship Control Units (PSCU)	
		Installation	Manual Dexterity
		Equipment Selection	Finger Dexterity
E4	CORE	Isolate sound-powered telephone circuits	
		Troubleshooting	Problem Sensitivity
		Complex Problem Solving	Information Ordering
E4	CORE	Program shore telephone systems	·
		Operation and Control	Finger Dexterity
F.5	CODE	Management of Material Resources	Written Comprehension
E5	CORE	Remove Portable Ship Control Units (PSCU)	Managar Day and
		Installation	Manual Dexterity
E5	CORE	Equipment Maintenance	Spatial Orientation
E5	CORE	Repair alarm switchboards  Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair amplified communication systems	1 robtem Sensitivity
23	COILE	Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair central amplifier systems	
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair intercommunicating stations	,
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair liquid level alarm sensing devices	
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair loudspeakers	
		Equipment Maintenance	Finger Dexterity
E4	CODE	Repairing	Problem Sensitivity
E4	CORE	Repair microphone control stations	E' D ' '
		Equipment Maintenance	Finger Dexterity
E5	CORE	Repair Portable Ship Control Units (PSCU)	Problem Sensitivity
EJ	COKE	Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair pressure alarm sensing devices	1 rootem Sensitivity
E.	COILE	Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair security alarm sensing devices	
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair shore telephone systems	-
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair sound-powered telephone systems	
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E4	CORE	Repair temperature alarm sensing devices	
		Equipment Maintenance	Finger Dexterity
<b>5</b> .4	ac	Repairing	Problem Sensitivity
E4	CORE	Replace intercommunicating station components	Community of
		Equipment Maintenance	Control Precision
		Installation	Problem Sensitivity

E4	CORE	Replace loudspeaker components	
F.4	CODE	Equipment Maintenance Installation	Control Precision Problem Sensitivity
E4	CORE	Replace microphone control station components  Equipment Maintenance  Installation	Control Precision Problem Sensitivity
E4	CORE	Test alarm switchboards  Quality Control Analysis	Deductive Reasoning
E4	CORE	Monitoring Test central amplifier systems	Information Ordering
E4	CORE	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test intercommunicating stations  Quality Control Analysis  Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test liquid level alarm sensing devices  Quality Control Analysis	Deductive Reasoning
E4	CORE	Monitoring Test loudspeakers	Information Ordering
E4	CORE	Quality Control Analysis  Monitoring Test microphone control stations	Deductive Reasoning Information Ordering
124	CORE	Test microphone control stations  Quality Control Analysis  Monitoring	Deductive Reasoning Information Ordering
E5	CORE	Test pressure alarm sensing devices  Quality Control Analysis	Deductive Reasoning
E4	CORE	Monitoring Test security alarm sensing devices	Information Ordering
E5	CORE	Quality Control Analysis  Monitoring  Test temperature alarm sensing devices	Deductive Reasoning Information Ordering
LS	CORL	Quality Control Analysis  Monitoring	Deductive Reasoning Information Ordering
E5	CORE	Troubleshoot alarm switchboards  Complex Problem Solving	Problem Sensitivity
E5	CORE	Troubleshooting Troubleshoot amplified communication systems Complex Problem Solving	Deductive Reasoning
E5	CORE	Troubleshooting Troubleshoot central amplifier systems	Problem Sensitivity Deductive Reasoning
		Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning
E4	CORE	Troubleshoot intercommunicating stations  Complex Problem Solving	Problem Sensitivity
E4	CORE	Troubleshooting Troubleshoot liquid level alarm sensing devices Complex Problem Solving	Deductive Reasoning  Problem Sensitivity
E4	CORE	Troubleshoot loudspeakers	Deductive Reasoning
77.4	CODE	Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning
E4	CORE	Troubleshoot microphone control stations  Complex Problem Solving  Troubleshooting	Problem Sensitivity Deductive Reasoning
E5	CORE	Troubleshoot Portable Ship Control Units (PSCU)  Complex Problem Solving	Problem Sensitivity
E5	CORE	Troubleshooting Troubleshoot pressure alarm sensing devices	Deductive Reasoning
E5	CORE	Complex Problem Solving Troubleshooting Troubleshoot security alarm sensing devices	Problem Sensitivity Deductive Reasoning
E3	CORE	Complex Problem Solving  Troubleshooting	Problem Sensitivity Deductive Reasoning
E5	CORE	Troubleshoot shore telephone systems  Complex Problem Solving	Problem Sensitivity
E5	CORE	Troubleshooting Troubleshoot sound-powered telephone systems  Complex Problem Solving	Deductive Reasoning
		Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning

E5	CORE	Troubleshoot temperature	alarm-sensing devices	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Un-rig shore telephone lin	es	
			Equipment Maintenance	Finger Dexterity
			Installation	Manual Dexterity

# **ELECTRONIC NAVIGATION SYSTEMS**

Paygrade Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust navigation sonar sy		
			Operation Monitoring	Deductive Reasoning
E5	CORE	Adjust radar systems	Systems Analysis	Manual Dexterity
E3	COKE	Adjust radar systems	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust synchro signal amp		
		, , , ,	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Calibrate gyrocompass sys		
			Equipment Maintenance	Control Precision
T:5	CORE	Calibrata inartial navigation	Operation and Control	Perceptual Speed
E5	CORE	Calibrate inertial navigatio	Equipment Maintenance	Control Precision
			Operation and Control	Perceptual Speed
E4	CORE	Calibrate rodmeters	operation and control	1 creepinan speca
			Equipment Maintenance	Control Precision
			Operation and Control	Perceptual Speed
E5	CORE	Calibrate speed and distant	ce transmitters	
			Equipment Maintenance	Control Precision
F.4	CODE	** '	Operation and Control	Perceptual Speed
E4	CORE	Un-rig portable commercia		Manual Danierita
			Installation Management of Material Resources	Manual Dexterity Finger Dexterity
E5	CORE	Enter navigation and vova	ge plans into the Voyage Management Sys	
23	COILE	Enter navigation and voya	Critical Thinking	Information Ordering
			Operation and Control	Near Vision
E5	CORE	Evaluate inertial navigation	n systems performance	
			Systems Evaluation	Selective Attention
			Operation Monitoring	Deductive Reasoning
E4	CORE	Inspect dummy log circuits		17 T
			Equipment Maintenance	Near Vision
E4	CORE	Inspect Global Positioning	Quality Control Analysis Systems (GPS)	Problem Sensitivity
L	CORE	mspeet Global I ostiloming	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect gyrocompass syste		, , , , , , , , , , , , , , , , , , , ,
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect inertial navigation		
			Equipment Maintenance	Near Vision
E4	CORE	Inspect navigation sonar sy	Quality Control Analysis	Problem Sensitivity
L+	COKE	mspect navigation sonar sy	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect radar systems	<b>£</b> ,	
		1 ,	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect rodmeters		
			Equipment Maintenance	Near Vision
D5	CORE	T	Quality Control Analysis	Problem Sensitivity
E5	CORE	Inspect speed and distance		Near Vision
			Equipment Maintenance Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect synchro signal amp		
·	- <del></del>	FJ	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect Voyage Manageme		•
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity

E5	CORE	Interpret inertial navigation system data  Complex Problem Solving	Deductive Reasoning
E5	CORE	Critical Thinking Interpret radar displays	Mathematical Reasoning
E4	CORE	Complex Problem Solving Critical Thinking	Deductive Reasoning Perceptual Speed
E4	CORE	Lubricate synchro signal amplifier components  Equipment Maintenance  Management of Material Resources	Manual Dexterity Control Precision
E4	CORE	Operate inertial navigation systems  Operation and Control	Manual Dexterity
E4	CORE	Systems Analysis Operate radar systems Operation and Control	Problem Sensitivity  Manual Dexterity
E5	CORE	Systems Analysis Repair dummy log circuits	Problem Sensitivity
E5	CORE	Equipment Maintenance Repairing Repair Global Positioning Systems (GPS)	Finger Dexterity Problem Sensitivity
E5	CORE	Equipment Maintenance Repairing Repair gyrocompass systems	Finger Dexterity Problem Sensitivity
ES	CORE	Equipment Maintenance Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair inertial navigation systems  Equipment Maintenance  Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair navigation sonar systems  Equipment Maintenance	Finger Dexterity
E5	CORE	Repairing Repair radar systems Equipment Maintenance	Problem Sensitivity  Finger Dexterity
E4	CORE	Repair rodmeters	Problem Sensitivity
E5	CORE	Equipment Maintenance Repairing Repair speed and distance transmitters	Finger Dexterity Problem Sensitivity
ES	CORE	Equipment Maintenance Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair synchro signal amplifiers  Equipment Maintenance  Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair Voyage Management Systems (VMS)  Equipment Maintenance	Finger Dexterity
E4	CORE	Repairing Rig portable commercial radar equipment Equipment Selection	Problem Sensitivity  Selective Attention
E5	CORE	Critical Thinking Troubleshoot dummy log circuits	Written Comprehension
E5	CORE	Complex Problem Solving Troubleshooting Troubleshoot Global Positioning Systems (GPS)	Problem Sensitivity Deductive Reasoning
LS		Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning
E5	CORE	Troubleshoot gyrocompass systems  Complex Problem Solving  Troubleshooting	Problem Sensitivity Deductive Reasoning
E5	CORE	Troubleshoot inertial navigation systems  Complex Problem Solving	Problem Sensitivity
E5	CORE	Troubleshooting Troubleshoot navigation sonar systems Complex Problem Solving	Deductive Reasoning  Problem Sensitivity
E5	CORE	Troubleshooting Troubleshoot radar systems	Deductive Reasoning
E4	CORE	Complex Problem Solving Troubleshooting Troubleshoot rodmeters	Problem Sensitivity Deductive Reasoning
		Complex Problem Solving Troubleshooting	Problem Sensitivity Deductive Reasoning

E5	CORE	Troubleshoot speed and di	istance transmitters	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot synchro sign	nal amplifiers	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot Voyage Mar	nagement Systems (VMS)	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning

## GENERAL ELECTRICAL SYSTEMS

<u>Paygrade</u>	Task Type	Task Statements	Skills	<u>Abilities</u>
E5	CORE	Adjust Central Atmospher	e Monitoring System (CAMS) equipment	Daduatina Pagganing
			Operation Monitoring Systems Analysis	Deductive Reasoning Manual Dexterity
E5	CORE	Adjust chill water indicating		тапиа Беліеніу
L3	CORL	rajust emii water maream	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust data transmission s		nzamaci Benieruy
		3	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust internal frequency	standards	
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust mast position indic	•	
			Operation Monitoring	Deductive Reasoning
77.5	CORE		Systems Analysis	Manual Dexterity
E5	CORE	Adjust ship's entertainmen		D 1 .: D .:
			Operation Monitoring	Deductive Reasoning
E4	CORE	Adjust synchro repeater sy	Systems Analysis	Manual Dexterity
£4	CORE	Adjust synchro repeater sy	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Adjust valve control system		munuai Dexierity
2.	COLL	ragust varve control system	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E4	CORE	Adjust valve position indic		,
		1	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Adjust ventilation airflow	indication systems	
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Calibrate pressure sensing		
			Equipment Maintenance	Control Precision
77.5	CORE		Operation and Control	Perceptual Speed
E5	CORE	Calibrate temperature mon		Control Donatation
			Equipment Maintenance	Control Precision
E4	CORE	Clean pressure sensing dev	Operation and Control	Perceptual Speed
L+	CORL	Clean pressure sensing dev	Equipment Maintenance	Manual Dexterity
			Management of Material Resources	Problem Sensitivity
E4	CORE	Inspect Central Atmospher	re Monitoring System (CAMS) equipment	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect chill water indicati	ng systems	•
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect data transmission s		
			Equipment Maintenance	Near Vision
77.5	CORE	T	Quality Control Analysis	Problem Sensitivity
E5	CORE	Inspect flowmeter systems		Maan Visio
			Equipment Maintenance	Near Vision
E4	CORE	Inspect internal frequency	Quality Control Analysis	Problem Sensitivity
L/ <del>+</del>	CORE	mspect internal frequency	Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
			2	

E4	CORE	Inspect mast position indication systems	
		Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect mini-combined units  Equipment Maintenance	Near Vision
E4	CORE	Quality Control Analysis Inspect pressure sensing devices	Problem Sensitivity
E4	CORE	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect synchro repeater systems  Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E5	CORE	Inspect Tank Level Indicator (TLI) systems  Equipment Maintenance	Near Vision
E4	CORE	Quality Control Analysis Inspect temperature monitoring systems Equipment Maintenance	Problem Sensitivity Near Vision
E4	CORE	Quality Control Analysis Inspect valve control systems	Problem Sensitivity
		Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect valve position indicating systems  Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect ventilation airflow indication systems  Equipment Maintenance	Near Vision
		Quality Control Analysis	Problem Sensitivity
E4	CORE	Operate valve control systems	•
		Operation and Control	Manual Dexterity
E5	CORE	Systems Analysis Repair aldis lamps	Problem Sensitivity
		Equipment Maintenance	Finger Dexterity
77.5	CORF	Repairing	Problem Sensitivity
E5	CORE	Repair Central Atmosphere Monitoring System (CAMS) equipment Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair chill water indicating systems	•
		Equipment Maintenance	Finger Dexterity
E5	CORE	Repair data transmission systems	Problem Sensitivity
23	CORE	Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair flowmeter systems	Eine on Dontonito
		Equipment Maintenance Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair internal frequency standards	
		Equipment Maintenance	Finger Dexterity
E5	CORE	Repairing Repair mast position indication systems	Problem Sensitivity
20	COLL	Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair mini-combined units	Finaan Dartanitu
		Equipment Maintenance Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair pressure sensing devices	
		Equipment Maintenance	Finger Dexterity
E5	CORE	Repair ship's entertainment systems	Problem Sensitivity
23	CORE	Equipment Maintenance	Finger Dexterity
E4	CORE	Repair synchro repeater systems	Problem Sensitivity
L	CORL	Equipment Maintenance	Finger Dexterity
77.5	CORE	Repairing	Problem Sensitivity
E5	CORE	Repair Tank Level Indicator (TLI) systems	Finaar Dartanitu
		Equipment Maintenance Repairing	Finger Dexterity Problem Sensitivity
E5	CORE	Repair temperature monitoring systems	
		Equipment Maintenance	Finger Dexterity
		Repairing	Problem Sensitivity

E4	CORE	Repair valve control systems
		Equipment Maintenance Finger Dexterity
E4	CORE	Repairing Problem Sensitivity Repair valve position indicating systems
L4	COKE	Equipment Maintenance Finger Dexterity
		Repairing Problem Sensitivity
E5	CORE	Repair ventilation airflow indication systems
		Equipment Maintenance Finger Dexterity Repairing Problem Sensitivity
E5	CORE	Replace Central Atmosphere Monitoring System (CAMS) equipment components
		Equipment Maintenance Control Precision
E4	CODE	Installation Problem Sensitivity
E4	CORE	Replace navigation lights  Equipment Maintenance Control Precision
		Installation Problem Sensitivity
E4	CORE	Test ship's entertainment systems
		Quality Control Analysis Deductive Reasoning
E5	CORE	Monitoring Information Ordering Troubleshoot aldis lamps
<b>L</b> 3	CORL	Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot Central Atmosphere Monitoring System (CAMS) equipment
		Complex Problem Solving Problem Sensitivity Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot chill water indicating systems
		Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot data transmission systems
		Complex Problem Solving Problem Sensitivity Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot flow meter systems
		Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot internal frequency standards  Complex Problem Solving Problem Sensitivity
		Complex Problem Solving Problem Sensitivity Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot mast position indication systems
		Complex Problem Solving Problem Sensitivity
E5	CORE	Troubleshooting Deductive Reasoning Troubleshoot mini-combined units
EJ	CORE	Troubleshoot mini-combined units  Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot pressure sensing devices
		Complex Problem Solving Problem Sensitivity
E5	CORE	Troubleshooting Deductive Reasoning Troubleshoot ship's entertainment systems
L3	COKE	Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E4	CORE	Troubleshoot synchro repeater systems
		Complex Problem Solving Problem Sensitivity Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot Tank Level Indicator (TLI) systems
20	00112	Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot temperature monitoring systems
		Complex Problem Solving Problem Sensitivity Troubleshooting Deductive Reasoning
E4	CORE	Troubleshoot valve control systems
		Complex Problem Solving Problem Sensitivity
E4	CORE	Troubleshooting Deductive Reasoning
E4	CORE	Troubleshoot valve position indicating systems  Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning
E5	CORE	Troubleshoot ventilation airflow indication systems
		Complex Problem Solving Problem Sensitivity
		Troubleshooting Deductive Reasoning

# INFORMATION SYSTEMS

<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Skills Configure applications software		<u>Abilities</u>
EJ	CORE	Configure applications software  Programming		Category Flexibility
		Systems Analy		Deductive Reasoning
E5	CORE	Configure file system security	515	Deductive Reasoning
		Programming		Category Flexibility
		Systems Analy		Deductive Reasoning
E5	CORE	Configure Information System (IS) server		o o
		Programming		Category Flexibility
		Systems Analy	vsis	Deductive Reasoning
E5	CORE	Configure network security tools		
		Programming		Category Flexibility
		Systems Analy	vsis	Deductive Reasoning
E5	CORE	Configure workstation software		
		Programming		Category Flexibility
		Systems Analy		Deductive Reasoning
E5	CORE	Establish Information System (IS) off-hull	l connectivity	
		Programming		Problem Sensitivity
		Quality Contr	ol Analysis	Response Orientation
E5	CORE	Groom Information Systems (IS)		
		Equipment Me		Problem Sensitivity
77.5	CODE	Technology D	0	Number Facility
E5	CORE	Inspect Information System (IS) compone		
		Equipment Mo		Near Vision
T.4	CODE	Quality Contr	ol Analysis	Problem Sensitivity
E4	CORE	Install computer components		14 ID ( )
		Installation	1	Manual Dexterity
D.E	CORE	Equipment Se	lection	Finger Dexterity
E5	CORE	Install network components		Manual Dantanita
		Installation Equipment Se	lastion	Manual Dexterity
E5	CORE	Interpret client software	іесноп	Finger Dexterity
EJ	COKE	Complex Prob	olem Solvina	Deductive Reasoning
		Critical Think		Written Comprehension
E4	CORE	Load Government Off-The-Shelf (GOTS)		Written Comprehension
LT	CORE	Installation	server software	Information Ordering
		Equipment Mo	aintenance	Deductive Reasoning
E5	CORE	Maintain Information System (IS) records		Deallett re Headening
		•	of Material Resources	Information Ordering
		Reading Com		Written Expression
E5	CORE	Optimize Local Area Network (LAN) traf		
		Critical Think		Deductive Reasoning
			Decision Making	Information Ordering
E5	CORE	Repair Information Systems (IS)	o o	,
		Equipment Me	aintenance	Finger Dexterity
		Repairing		Problem Sensitivity
E5	CORE	Restore Information Systems (IS) using di	saster recovery procedures	
		Operations Ar	alysis	Information Ordering
		Complex Prob	olem Solving	Written Comprehension
E6	CORE	Review operating system safeguards		
		Reading Com	prehension	Written Comprehension
		Critical Think	ing	Problem Sensitivity
E5	CORE	Safeguard operating systems		
		Management of	of Material Resources	Perceptual Speed
		Critical Think	ing	Number Facility
E4	CORE	Test computer systems		
		Quality Contr	ol Analysis	Deductive Reasoning
		Monitoring		Information Ordering
E5	CORE	Troubleshoot Information Systems (IS)		
		Complex Prob		Problem Sensitivity
	CORP	Troubleshooti		Deductive Reasoning
E5	CORE	Update client and server relational database	ses	W. C
		Installation	1.6 . 1	Written Comprehension
		Operation and	i Control	Information Ordering

# MISCELLANEOUS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Conduct sound isolation s	surveys	
			Quality Control Analysis	Inductive Reasoning
			Systems Evaluation	Problem Sensitivity
E4	CORE	Rig bridge for dive		
			Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension
E4	CORE	Rig bridge for in port		
			Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension
E4	CORE	Rig bridge for surface		
			Equipment Selection	Selective Attention
			Critical Thinking	Written Comprehension

## NAVIGATION AND PILOTING

<u>Paygrade</u>	Task Type	<u>Task Statements</u> <u>Skills</u>	<u>Abilities</u>
E4	CORE	Correlate observed celestial data with air almanacs	
		Critical Thinking	Mathematical Reasoning
		Mathematics	Information Ordering

# POWER GENERATION AND DISTRIBUTION SYSTEMS

E4 CORE Adjust Motor Generators (MG)  Operation Monitoring Systems Analysis  E5 CORE Adjust power supplies  Operation Monitoring Systems Analysis  E6 CORE Adjust voltage regulators  E7 Operation Monitoring Systems Analysis  E7 Operation Monitoring Systems Analysis  E8 CORE Adjust voltage regulators  E9 Operation Monitoring Systems Analysis  E9 Operation Monitoring Systems Analysis Manual Dexterity Manual Dexter	<u>Paygrade</u> E4	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5 CORE Adjust power supplies  CORE Adjust power supplies  CORE Adjust voltage regulators  E5 CORE Adjust voltage regulators  E4 CORE Align Action Cutout (ACO) switchboards  E4 CORE CAlibrate switchboard meters  E4 CORE CALIBRATE CORE Alignate switchboard meters  E5 CORE CALIBRATE CORE Alignate switchboard meters  E4 CORE Inspect Action Cutout (ACO) switchboards  E4 CORE Inspect Action Cutout (ACO) switchboards  E4 CORE Inspect cables  E4 CORE Inspect cables  E4 CORE Inspect cables  E4 CORE Inspect cables  E4 CORE Inspect Interior Communications (C) switchboards  E4 CORE Inspect power supplies  E5 CORE Inspect power supplies  E4 CORE Inspect power supplies  E5 CORE Inspect transformers  E4 CORE Inspect voltage regulators  E5 CORE Inspect voltage regulators	E4	CORE	Adjust Motor Generators		Daduatina Pagganina
E5 CORE Adjust power supplies Operation Monitoring Systems Analysis Manual Dexterity E5 CORE Adjust voltage regulators Operation Monitoring Systems Analysis Manual Dexterity E4 CORE Align Action Cutout (ACO) switchboards E5 CORE Calibrate switchboard meters Equipment Maintenance Operation and Control Perceptual Speed E5 CORE Calibrate switchboard meters Equipment Maintenance Operation and Control Perceptual Speed E6 CORE Inspect Action Cutout (ACO) switchboards E7 CORE Description and Control Perceptual Speed E8 CORE Inspect Action Cutout (ACO) switchboards E8 CORE Description and Control Perceptual Speed E9 CORE Description Cutout (ACO) switchboards E9 CORE Description Control Analysis Problem Sensitivity E9 CORE Description Communications (IC) switchboards E9 CO					
E5 CORE Adjust voltage regulators  CORE Adjust voltage regulators  Operation Monitoring Systems Analysis  Operation Monitoring Systems Analysis  Operation Monitoring Deductive Reasoning Systems Analysis  E4 CORE Align Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Rate Control  E5 CORE Calibrate switchboard meters  Equipment Maintenance Operation and Control Percision Operation and Control Perceptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Operation Analysis Problem Sensitivity  E4 CORE Inspect cables  E4 CORE Inspect Cables  E4 CORE Inspect Interior Communications (IC) switchboards  E4 CORE Inspect Interior Communications (IC) switchboards  E4 CORE Inspect Interior Communications (IC) switchboards  E4 CORE Inspect Power supplies  E5 CORE Inspect power supplies  E4 CORE Inspect Family Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  E4 CORE Inspect Voltage regulators  E5 CORE Inspect Volt	E5	CORE	Adjust nower supplies	Systems Analysis	тапиш Белістіу
E5 CORE Adjust voltage regulators    Operation Monitoring   Deductive Reasoning	1.5	CORE	Adjust power supplies	Operation Monitoring	Deductive Reasoning
E5 CORE Adjust voltage regulators  Operation Monitoring Systems Analysis  E4 CORE Align Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Rate Control  E5 CORE Calibrate switchboard meters  Equipment Maintenance Operation and Control Perceptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Perceptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E4 CORE Inspect cables  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect Interior Communications (IC) switchboards Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect power supplies  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E6 CORE Inspect transformers  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E6 CORE Inspect voltage regulators  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E7 CORE Inspect voltage regulators  Equipment Maintenance Quality Control Analysis Problem Sensitivity				1	
E4 CORE Inspect cables  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E4 CORE Inspect Interior Communications (IC) switchboards  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Quality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity  E6 CORE Inspect Inspect Inspect Operation of Analysis Problem Sensitivity  E6 CORE Inspect Interior Communications (IC) switchboards  Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity  E6 CORE Inspect Interior Communications (IC) switchboards  Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity  E7 CORE Inspect In	E5	CORE	Adjust voltage regulators	2,3	
Systems Analysis Manual Dexterity  E4 CORE Align Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Rate Control  E5 CORE Calibrate switchboard meters  Equipment Maintenance Operation and Control Precision Operation and Control Perceptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Perceptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E4 CORE Inspect cables  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E5 CORE Inspect Interior Communications (IC) switchboards  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E5 CORE Inspect power supplies  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E5 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E6 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity  E6 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Ouality Control Analysis Problem Sensitivity				Operation Monitoring	Deductive Reasoning
E4 CORE Align Action Cutout (ACO) switchboards  Equipment Maintenance Operation and Control Rate Control  E5 CORE Calibrate switchboard meters  Equipment Maintenance Operation and Control Precision Operation and Control Precision Operation and Control Preciptual Speed  E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E4 CORE Inspect cables  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E5 CORE Inspect Interior Communications (IC) switchboards  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E5 CORE Inspect power supplies  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E5 CORE Inspect transformers  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E5 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E6 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity  E7 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Outling Control Analysis Problem Sensitivity				1	
$ E5 \qquad CORE \qquad Calibrate switchboard meters \\ Equipment Maintenance \\ Operation and Control \\ Patter Control \\ Perceptual Speed \\ Perceptual Speed$	E4	CORE	Align Action Cutout (ACC		,
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E4 CORE Inspect Action Cutout (ACO) switchboards  Equipment Maintenance	E5	CORE	Calibrate switchboard met	ters	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				Equipment Maintenance	Control Precision
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E5 CORE Inspect transformers  Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity  E5 CORE Inspect voltage regulators Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity					
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E5 CORE Inspect voltage regulators  Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity					Near Vision
Equipment Maintenance Near Vision Quality Control Analysis Problem Sensitivity					Problem Sensitivity
Quality Control Analysis Problem Sensitivity	E5	CORE	Inspect voltage regulators		
				1 1	
E4 CORE Operate Action Cutout (ACO) switchboards					Problem Sensitivity
	E4	CORE	Operate Action Cutout (A	*	
Operation and Control Manual Dexterity					
Systems Analysis Problem Sensitivity					Problem Sensitivity
E4 CORE Operate Interior Communications (IC) switchboards	E4	CORE	Operate Interior Commun		
Operation and Control Manual Dexterity				*	
Systems Analysis Problem Sensitivity	D.f.	CODE	D 1 1 1 0 1 1 1 1		Problem Sensitivity
E5 CORE Repair Action Cutout (ACO) switchboards	E5	CORE	Repair Action Cutout (AC		E. B
Equipment Maintenance Finger Dexterity				1 1	
Repairing Problem Sensitivity				кераігіпд	Problem Sensitivity

E4	CORE	Repair cables	
		Equipment Maint	
		Repairing	Problem Sensitivity
E5	CORE	Repair Interior Communications (IC) switchb	
		Equipment Maint	tenance Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair power supplies	
		Equipment Maint	tenance Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair transformers	
		Equipment Maint	tenance Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Repair voltage regulators	
		Equipment Maint	tenance Finger Dexterity
		Repairing	Problem Sensitivity
E5	CORE	Troubleshoot Action Cutout (ACO) switchbo	pards
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot cables	Ţ.
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot Interior Communications (IC) s	switchboards
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot power supplies	-
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot transformers	Ţ.
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot voltage regulators	· ·
		Complex Problem	n Solving Problem Sensitivity
		Troubleshooting	Deductive Reasoning
		CHIP CONTROL CIV	AMERICA CO

# SHIP CONTROL SYSTEMS

			~- ***	
Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust Ballast Control Pa	. ,	D 1 .: D .:
			Operation Monitoring	Deductive Reasoning
E.f.	CODE	A 1: . 1 . 1 . :	Systems Analysis	Manual Dexterity
E5	CORE	Adjust depth sensing systematical systems of the systems of the system o		D. J. div. D
			Operation Monitoring	Deductive Reasoning
D.C	CODE	A 1: 4 G1: 1 G 4 1 B	Systems Analysis	Manual Dexterity
E5	CORE	Adjust Ship's Control Pan		D 1 - 1 D - 1
			Operation Monitoring	Deductive Reasoning
77.5	CORE		Systems Analysis	Manual Dexterity
E5	CORE	Adjust ship's control syste		
			Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Calibrate depth sensing sy		
			Equipment Maintenance	Control Precision
			Operation and Control	Perceptual Speed
E4	CORE	Inspect Ballast Control Pa		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect depth sensing syst		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect Ship's Control Par	nels (SCP)	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect ship's control syst	ems	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E5	CORE	Install depth sensing syste	em components	
			Installation	Manual Dexterity
			Equipment Selection	Finger Dexterity
E5	CORE	Operate Ballast Control P	anels (BCP)	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity

E5	CORE	Operate Ship's Control Par		
			Operation and Control	Manual Dexterity
E4	CORE	Omanata ahin'a control avat	Systems Analysis	Problem Sensitivity
E4	CORE	Operate ship's control syste	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Remove depth sensing syst		1 robiem Sensitivity
LS	CORL	Remove depth sensing syst	Installation	Manual Dexterity
			Equipment Maintenance	Spatial Orientation
E5	CORE	Repair Ballast Control Pan	* *	Spanial Crientalion
		<u>r</u>	Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E5	CORE	Repair depth sensing system	1 0	Ž
		1 1 2 3	Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E4	CORE	Repair ship's angle indicate	or systems	•
			Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E5	CORE	Repair Ship's Control Pane	els (SCP)	
			Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E5	CORE	Repair ship's control system		
			Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E5	CORE	Troubleshoot Ballast Contr	* /	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot depth sensing		D 11 0 111
			Complex Problem Solving	Problem Sensitivity
E4	CORE	T 11 1 4 1 1 1 1 1	Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot ship's angle i		D 11 G
			Complex Problem Solving	Problem Sensitivity
D5	CORE	Troublashoot Chinia Contro	Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot Ship's Contro	Complex Problem Solving	Problem Sensitivity
			1	
E5	CORE	Troubleshoot ship's contro	Troubleshooting	Deductive Reasoning
LJ	CORE	Troubleshoot ship's control	Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
			Tronoicsnooting	Deductive Reusoning

# STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>Paygrade</u> E5	Task Type CORE	<u>Task Statements</u> Adjust hovering systems	<u>Skills</u>	<u>Abilities</u>
		j	Operation Monitoring	Deductive Reasoning
			Systems Analysis	Manual Dexterity
E5	CORE	Calibrate hovering system	S	
			Equipment Maintenance	Control Precision
			Operation and Control	Perceptual Speed
E5	CORE	Calibrate missile compens	ation systems	
			Equipment Maintenance	Control Precision
			Operation and Control	Perceptual Speed
E4	CORE	Inspect hovering systems		
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E4	CORE	Inspect missile compensat	ion systems	
			Equipment Maintenance	Near Vision
			Quality Control Analysis	Problem Sensitivity
E5	CORE	Operate hovering systems		
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Operate missile compensa	tion systems	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Repair hovering systems		
			Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity
E5	CORE	Repair missile compensati	on systems	
			Equipment Maintenance	Finger Dexterity
			Repairing	Problem Sensitivity

E5	CORE	Troubleshoot hovering systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
E5	CORE	Troubleshoot missile compensation systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning

# Job Title

Job Code 001192

# **Submarine Navigation Manager**

Job Family NOC Short Title (30 Characters) Short Title (10 Characters)

Installation, Maintenance, and Repair 4900-1011.00 SUBMARINE NAVIGATION MANAGER SSNAV MGR

<u>Pay Plan</u> <u>Career Field</u> <u>Proficiency Level</u> <u>Other Relationships and Rules:</u>

Enlisted ET(NAV) J/M NECs may include 14GM, 14NM, 14NP, 14NV, 14TK, and 14XM

#### **Job Description**

Submarine Navigation Managers assess navigation division training, audit navigation division records, coordinate navigation division maintenance, and coordinate navigation division equipment modifications. They review naval correspondence, develop navigation watch bills, and develop shipboard navigation instructions. They prepare narrative reports of operations and exercises and evaluate piloting and modified piloting team performance. They monitor maintenance quality control, prepare weekly preventive maintenance schedules, review completed maintenance data forms, supervise the repair of electronic systems and subsystems, use accounting procedures to maintain control of inventories and work flow, estimate time and support required for repair of equipment. They provide technical and supervisory liaison between work centers, implement and administer maintenance and repair programs, and prepare quarterly preventive maintenance schedules. They oversee the inventory, updating, and correcting of navigation charts and publications; develop navigation plans and voyage plans based on assigned operational tasking; review navigation logs and records; and stand watch as Navigation Supervisor. They train and supervise the Submarine Navigation Operators and Submarine Navigation Technicians in the performance of their assigned tasks. They advise the Officer of the Deck (OOD), Navigator, and Commanding Officer regarding to the Rules of the Road, current operations, and navigation requirements. Submarine Navigation Managers are very senior Electronics Technicians with significant navigation experience.

#### DoD Relationship O*NET Relationship

Title and Group:	Code and Area:	Title and SOC Code:	Name and Family Code:
Navigation, Communication, and	110200	First-Line Supervisors/Managers of	Installation, Maintenance, and Repair
Countermeasure, N.E.C		Mechanics, Installers, and Repairers	
110	11	49-1011.00	49

#### **ADMINISTRATION**

E6 CORE Analyze service logs  CORE Analyze service logs  CORE Analyze wiring diagrams  E7 CORE Analyze wiring diagrams  E8 CORE Analyze wiring diagrams  CORE Analyze wiring diagrams  CORE Analyze wiring diagrams  CORE Analyze wiring diagrams  Reading Comprehension  Analyze Service logs  Active Learning Inductive Reasoning Problem Sensitivity  E8 CORE Analyze service logs  Active Learning Inductive Reasoning Problem Sensitivity  E8 CORE Analyze service logs  Active Learning Inductive Reasoning Problem Sensitivity  E8 CORE Analyze wiring diagrams  Reading Comprehension Inductive Reasoning Problem Sensitivity  E9 CORE Analyze wiring diagrams  Reading Comprehension Inductive Reasoning Problem Sensitivity  E9 CORE Analyze wiring diagrams  Reading Comprehension Inductive Reasoning Problem Sensitivity  E0 CORE Audit Quality Assurance (QA) packages  Quality Control Analysis Information Ordering Management of Material Resources Written Comprehension  E0 CORE Audit quartermaster records  Quality Control Analysis Information Ordering Reading Comprehension Written Comprehension
E7 CORE Analyze navigation exercises  Quality Control Analysis Inductive Reasoning Complex Problem Solving Problem Sensitivity  E5 CORE Analyze schematic diagrams  Reading Comprehension Inductive Reasoning Problem Sensitivity  E7 CORE Analyze service logs  Active Learning Inductive Reasoning Problem Sensitivity  E5 CORE Analyze service logs  Active Learning Inductive Reasoning Management of Material Resources Problem Sensitivity  E5 CORE Analyze wiring diagrams  Reading Comprehension Inductive Reasoning Systems Analysis Problem Sensitivity  E6 CORE Audit Quality Assurance (QA) packages  Quality Control Analysis Information Ordering Management of Material Resources Written Comprehension  E6 CORE Audit quartermaster records  Quality Control Analysis Information Ordering  Management of Material Resources Information Ordering Management of Material Resources Information Ordering Management of Material Resources Information Ordering Management of Material Resources Information Ordering Management of Material Resources Information Ordering Management Of Material Resources Information Ordering Management Of Material Resources Information Ordering Management Of Material Resources Information Ordering Management Of Material Resources Information Ordering Information Ordering Management Of Material Resources Information Ordering Information Information Ordering Information Ordering Information Information Information Information Information Information Information
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Management of Material Resources Written Comprehension  E6 CORE Audit quartermaster records  Quality Control Analysis Information Ordering
E6 CORE Audit quartermaster records  **Quality Control Analysis** Information Ordering**
Quality Control Analysis Information Ordering
Reading Comprehension Written Comprehension
E5 CORE Collect navigation equipment performance data
Quality Control Analysis Number Facility
Systems Evaluation Problem Sensitivity
E5 CORE Conduct entering port checks
Complex Problem Solving Problem Sensitivity
Critical Thinking Written Comprehension
E6 CORE Conduct navigation team training
Instructing Oral Expression
Speaking Speech Clarity
E5 CORE Conduct Strategic Weapons System (SWS) strategic navigation subsystem advanced operations
Operation and Control Deductive Reasoning
Equipment Maintenance Problem Sensitivity

E6	CORE	Coordinate Strategic Weapons System Maintenance Information Net	twork (SWSMIN) programs  Category Flexibility
E6	CORE	Systems Analysis Deliver piloting and operations briefs	Deductive Reasoning
E5	CORE	Speaking Coordination Develop piloting and operations briefs	Oral Expression Speech Clarity
E6	CORE	Management of Material Resources  Management of Personnel Resources  Involvement Hazardova Material (HAZMAT) wester dispessed methods	Originality Visualization
EO	CORE	Implement Hazardous Material (HAZMAT) waste disposal methods  Management of Material Resources  Operation and Control	Problem Sensitivity Information Ordering
E6	CORE	Inspect Hazardous Material (HAZMAT) storage areas  Equipment Maintenance	Near Vision
E4	CORE	Quality Control Analysis Interpret blueprints  Complex Problem Solving	Problem Sensitivity  Deductive Reasoning
E4	CORE	Critical Thinking Interpret schematic diagrams	Written Comprehension
E7	CORE	Complex Problem Solving Critical Thinking Plan Strategic Weapons System (SWS) patrols	Deductive Reasoning Written Comprehension
E7	CORE	Critical Thinking Judgment and Decision Making Prepare Casualty Reports (CASREP)	Fluency of Ideas Inductive Reasoning
		Active Listening Reading Comprehension	Information Ordering Written Expression
E6	CORE	Prepare local changes to Strategic Weapons System (SWS) documer Reading Comprehension Management of Material Resources	ntation Fluency of Ideas Written Expression
E6	CORE	Prepare Movement Reports (MOVREPS)  Reading Comprehension	Fluency of Ideas
E7	CORE	Complex Problem Solving Prepare narrative reports of operations and exercises Reading Comprehension	Written Expression Fluency of Ideas
E7	CORE	Complex Problem Solving Prepare navigation exercises	Written Expression
E6	CORE	Reading Comprehension Complex Problem Solving Prepare navigation messages	Written Expression Information Ordering
E7	CORE	Reading Comprehension Complex Problem Solving Prepare TDENT messages	Written Expression Information Ordering
		Reading Comprehension Complex Problem Solving	Written Expression Information Ordering
E7	CORE	Review Casualty Reports (CASREP)  Reading Comprehension  Critical Thinking	Written Comprehension Problem Sensitivity
E5	CORE	Review Hazardous Material (HAZMAT) inventories  Reading Comprehension	Written Comprehension
E6	CORE	Critical Thinking Review navigation logs Reading Comprehension	Problem Sensitivity  Written Comprehension
E6	CORE	Quality Control Analysis Review position reports	Problem Sensitivity
E6	CORE	Reading Comprehension Quality Control Analysis Review Quality Assurance (QA) packages	Written Comprehension Problem Sensitivity
E6	CORE	Reading Comprehension Quality Control Analysis Review Strategic Weapons System (SWS) logs	Written Comprehension Problem Sensitivity
		Reading Comprehension Quality Control Analysis	Written Comprehension Problem Sensitivity
E6	CORE	Supervise navigation division maintenance programs  Management of Personnel Resources  Coordination	Information Ordering Time Sharing
E5	CORE	Supervise Quality Assurance (QA) testing procedures  Management of Personnel Resources  Coordination	Information Ordering Time Sharing

E6	CORE	Review blueprints for accuracy	
		Reading Comprehension	Written Comprehension
		Quality Control Analysis	Problem Sensitivity
E6	CORE	Review system diagrams for accuracy	
		Reading Comprehension	Written Comprehension
		Quality Control Analysis	Problem Sensitivity

# **CHART PREPARATIONS**

D	T	T1- C4-44-	CL2II-	4 L:1:4:
<u>Paygrade</u> E4	<u>Task Type</u> CORE	<u>Task Statements</u> Calculate Estimated Time	Skills	<u>Abilities</u>
£4	COKE	Calculate Estimated Tillic	Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E5	CORE	Calculate red and yellow		
		·	Mathematics	Deductive Reasoning
			Critical Thinking	Mathematical Reasoning
E4	CORE	Calculate Speed Of Adva		
			Mathematics	Deductive Reasoning
Ec	CODE	D ( 1 1 11	Critical Thinking	Mathematical Reasoning
E6	CORE	Determine chart allowand		Daduatina Pagganina
			Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E5	CORE	Determine danger areas	Juagment and Decision Making	Writen Comprehension
23	CORE	Determine danger areas	Critical Thinking	Deductive Reasoning
			Judgment and Decision Making	Written Comprehension
E5	CORE	Determine lines of demar		•
			Critical Thinking	Deductive Reasoning
			Judgment and Decision Making	Written Comprehension
E6	CORE	Determine navigation pul		
			Critical Thinking	Deductive Reasoning
E4	CODE	D	Judgment and Decision Making	Written Comprehension
E4	CORE	Determine shoal water	Critical Thinking	Daduatina Pagganina
			Critical Thinking Judgment and Decision Making	Deductive Reasoning Written Comprehension
E5	CORE	Interpret chart informatio	on using sailing directions and fleet guides	Written Comprehension
23	CORE	interpret chart informatio	Complex Problem Solving	Deductive Reasoning
			Critical Thinking	Written Comprehension
E5	CORE	Plot danger bearings		•
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Plot danger ranges	G	
			Critical Thinking	Written Expression
E5	CORE	Plot maximum deviations	Mathematics	Mathematical Reasoning
ES	COKE	Fiot maximum deviations	Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E6	CORE	Plot moving havens	Tito manes	manenanean reasoning
			Critical Thinking	Written Expression
			Mathematics	Mathematical Reasoning
E5	CORE	Plot swing and drag circle	es	
			Critical Thinking	Written Expression
77.5	CORE	751	Mathematics	Mathematical Reasoning
E5	CORE	Plot turn slide bars		т Е
			Critical Thinking Mathematics	Written Expression
E5	CORE	Prepare open ocean track		Mathematical Reasoning
LS	COKE	r repare open ocean track	Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E5	CORE	Prepare precision anchori		<b>3</b>
		1 1	Reading Comprehension	Written Expression
			Complex Problem Solving	Information Ordering
E5	CORE	Prepare restricted water to		
			Reading Comprehension	Written Expression
E4	CORE	Duomono obinto Diono - CT (	Complex Problem Solving	Information Ordering
E4	CORE	Prepare ship's Plan of Into		Weitton Expense
			Reading Comprehension Complex Problem Solving	Written Expression Information Ordering
			Complex 1 rootem Solving	injornation Oracinis

CORE	Supervise colors ceremon	Judgment and Decision Making Management of Personnel Resources Coordination TION AND PILOTING	Speech Recognition Information Ordering Time Sharing		
CORE		Management of Personnel Resources Coordination	Speech Recognition  Information Ordering		
CORE	kender nonors	Critical Thinking	Response Orientation		
Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>		
MISCELLANEOUS  Number Facility					
CORE	Safeguard operating syste	ems Management of Material Resources	Perceptual Speed Number Facility		
CORE	Review operating system	Reading Comprehension	Written Comprehension Problem Sensitivity		
		Reading Comprehension Critical Thinking	Written Comprehension Problem Sensitivity		
	-	Management of Material Resources Operation and Control	Problem Sensitivity Information Ordering		
		Programming Systems Analysis	Rate Control Problem Sensitivity		
Task Type	Task Statements Coordinate Information S	Skills System (IS) equipment modifications	<u>Abilities</u>		
	INFOR	MATION SYSTEMS	•		
CORE	Operate valve control sys	tems Operation and Control Systems Analysis	Manual Dexterity Problem Sensitivity		
Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>		
	GENERAL 1	ELECTRICAL SYSTEMS			
CORE	Operate Voyage Manager		Manual Dexterity Problem Sensitivity		
CORE	Evaluate inertial navigation	on systems performance Systems Evaluation Operation Monitoring	Selective Attention Deductive Reasoning		
CORE	Calibrate inertial navigati	on systems Equipment Maintenance Operation and Control	Control Precision Perceptual Speed		
<u>Task Type</u>	Task Statements	NAVIGATION SYSTEMS <u>Skills</u>	<u>Abilities</u>		
	ELECTRONIC	Equipment Selection	Written Comprehension Deductive Reasoning		
CORE	Select charts for proposed	Quality Control Analysis 1 transits	Problem Sensitivity		
CORE	Review navigation chart J	Speaking preparations	Information Ordering  Written Comprehension		
CORE	Recommend courses for i		Deductive Reasoning		
	Task Type CORE CORE CORE Task Type CORE CORE CORE CORE CORE CORE CORE CORE	CORE Select charts for proposed  ELECTRONIC  Task Type CORE Task Statements Calibrate inertial navigation CORE Evaluate inertial navigation CORE Operate Voyage Manager  GENERAL I  Task Type CORE Task Statements Operate valve control system  INFOR  Task Type CORE Task Statements Core Implement Information Statements CORE Review Local Area Network CORE Review operating system  CORE Safeguard operating system  MI  Task Type Task Type Task Statements	Complex Problem Solving Speaking Speaking CORE Review navigation chart preparations Reading Comprehension Quality Control Analysis Complex Problem Solving Equipment Selection  ELECTRONIC NAVIGATION SYSTEMS  Task Type CORE Calibrate inertial navigation systems Equipment Maintenance Operation and Control CORE Core Core Core Core Core Core Core Core		

E5	CORE	Advise Officer of the Deck (OOD) of ocean depth and bottom while Speaking	anchoring Oral Expression
E5	CORE	Mathematics Advise the Officer of the Deck (OOD) on Rules of the Road	Speech Clarity
E4	CORE	Speaking Learning Strategies Calculate position relative to Plan of Intended Movement (PIM)	Oral Expression Speech Clarity
		Mathematics Critical Thinking	Deductive Reasoning Mathematical Reasoning
E5	CORE	Calculate tide effects on ship's movements  Science  Critical Thinking	Inductive Reasoning Mathematical Reasoning
E5	CORE	Calculate wind effects on ship's movements  Science	Inductive Reasoning
E4	CORE	Critical Thinking Compare fathometer readings with charts Mathematics	Mathematical Reasoning  Mathematical Reasoning
E4	CORE	Critical Thinking Compare gyrocompass and inertial headings Quality Control Analysis	Written Comprehension  Mathematical Reasoning
E6	CORE	Mathematics Compute position uncertainty using fix expansion method	Written Comprehension
E6	CORE	Mathematics Critical Thinking Compute radar repeater bearing and range errors	Mathematical Reasoning Problem Sensitivity
E5	CORE	Mathematics Critical Thinking	Mathematical Reasoning Problem Sensitivity
E5	CORE	Conduct strike group operations  Complex Problem Solving  Judgment and Decision Making	Deductive Reasoning Written Comprehension
E4	CORE	Convert between relative bearings and true bearings  Mathematics  Critical Thinking	Mathematical Reasoning Number Facility
E7	CORE	Evaluate navigation information  Systems Evaluation	Selective Attention
E6	CORE	Operation Monitoring Evaluate piloting team performance Systems Evaluation	Inductive Reasoning Selective Attention
E5	CORE	Monitoring Evaluate radar information Systems Evaluation	Inductive Reasoning Selective Attention
E6	CORE	Operation Monitoring Extract navigation information from Operation Orders (OPORDS)	Inductive Reasoning
E4	CORE	Reading Comprehension Active Learning Interpret cloud formations and heights	Written Comprehension Memorization
		Complex Problem Solving Critical Thinking	Deductive Reasoning Far Vision
E6	CORE	Recommend paths for storm evasion  Critical Thinking  Judgment and Decision Making	Oral Expression Perceptual Speed
E4	CORE	Monitor harbor common circuits  Active Listening	Auditory Attention
E4	CORE	Management of Material Resources Obtain visual bearings using a periscope Mathematics	Information Ordering  Far Vision
E4	CORE	Management of Material Resources  Operate Very High Frequency (VHF) equipment while on surface  Operation and Control	Information Ordering  Manual Dexterity
E4	CORE	Systems Analysis Predict ship's future positions	Problem Sensitivity
E4	CORE	Mathematics Critical Thinking Recommend courses for man overboard recoveries	Mathematical Reasoning Information Ordering
E4	CORE	Complex Problem Solving Speaking Recommend courses for precision anchoring	Deductive Reasoning Information Ordering
Lī	CORL	Complex Problem Solving Speaking	Deductive Reasoning Information Ordering

E4	CORE	Sight and report visual co	ontacts	
		_	Complex Problem Solving	Visual Color Discrimination
			Speaking	Oral Expression
E6	CORE	Supervise open ocean open	erations	
			Management of Personnel Resources	Information Ordering
			Coordination	Time Sharing
E6	CORE	Supervise piloting operat	ions	
			Management of Personnel Resources Coordination	Information Ordering Time Sharing

# SHIP CONTROL SYSTEMS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<b>Abilities</b>
E5	CORE	Operate Ballast Control Pa	anels (BCP)	
		_	Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity
E5	CORE	Operate Ship's Control Par	nels (SCP)	
			Operation and Control	Manual Dexterity
			Systems Analysis	Problem Sensitivity

# STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>Abilities</u>
Manual Dexterity
Problem Sensitivity
Manual Dexterity
Problem Sensitivity